



2823

JFW

Electronic Filing System (EFS) Data

Electronic Patent Application Submission

USPTO Use Only

EFS ID: 53690

Application ID: 09069668



Title of Invention: BIPOLAR TRANSISTORS WITH
LOW-RESISTANCE EMITTER
CONTACTS

First Named Inventor: Kie Ahn

Domestic/Foreign Application: Domestic Application

Filing Date: 1998-04-29

Effective Receipt Date: 2004-01-14

Submission Type: Information Disclosure
Statement

Filing Type:

Confirmation number: 3628

Attorney Docket Number: 303.466US1

Total Fees Authorized:

Digital Certificate Holder: cn=Janal M. Kalis,ou=Registered Attorneys,ou=Patent and Trademark
Office,ou=Department of Commerce,o=U.S. Government,c=US

Certificate Message Digest: ede8ddabf78319e4604a4b723195df626215d84d



TRANSMITTAL

Electronic Version v1.1

Stylesheet Version v1.1.0

Title of Invention	BIPOLAR TRANSISTORS WITH LOW-RESISTANCE EMITTER CONTACTS	
<p>Application Number: 09/069668 </p> <p>Date: 1998-04-29</p> <p>First Named Applicant: Kie Ahn</p> <p>Confirmation Number: 3628</p> <p>Attorney Docket Number: 303.466US1</p>		
<p>I hereby certify that the use of this system is for OFFICIAL correspondence between patent applicants or their representatives and the USPTO. Fraudulent or other use besides the filing of official correspondence by authorized parties is strictly prohibited, and subject to a fine and/or imprisonment under applicable law.</p> <p>I, the undersigned, certify that I have viewed a display of document(s) being electronically submitted to the United States Patent and Trademark Office, using either the USPTO provided style sheet or software, and that this is the document(s) I intend for initiation or further prosecution of a patent application noted in the submission. This document(s) will become part of the official electronic record at the USPTO.</p>		
Submitted by:	Elec. Sign.	Sign. Capacity
Janal M. Kalis Registered Number: 37,650	/janal kalis/	Attorney
Documents being submitted us-ids	Files 303.466US1-usidst.xml us-ids.dtd us-ids.xsl	
Comments		



ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18

Stylesheet Version v18.0

Title of Invention	BIPOLAR TRANSISTORS WITH LOW-RESISTANCE Emitter Contacts						
Application Number:	09/069668 						
Confirmation Number:	3628						
First Named Applicant:	Kie Ahn						
Attorney Docket Number:	303.466US1						
Art Unit:	2823						
Examiner:	W. Coleman						
Search string:	(3932226 or 4169000 or 4442449 or 4670297 or 4855252 or 4857481 or 4959705 or 5040049 or 5148260 or 5158986 or 5187560 or 5241193 or 5268315 or 5308440 or 5334356 or 5391911 or 5454928 or 5458702 or 5501645 or 5516724 or 5516745 or 5539227 or 5563448 or 5593921 or 5705425 or 5710454 or 5753967 or 5757072 or 5796151 or 5796166 or 5798544 or 5798559 or 5847439 or 5861340 or 5891797 or 5920121 or 5925918 or 5925933 or 5930596 or 5930668 or 5942799 or 5960313 or 5989718 or 6025261 or 6080646 or 6150252 or 6157082 or 6180509 or 6211562 or 6245663 or 6265602 or 6271551).pn.						
US Patent Documents							
Note: Applicant is not required to submit a paper copy of cited US Patent Documents							
init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
	1	3932226	1976-01-13	Klatskin, J. B., et al.	204	16	
	2	4169000	1979-09-25	Riseman, J.	148	187	
	3	4442449	1984-04-10	Lehrer, W. I., et al.	357	67	
	4	4670297	1987-06-02	Lee, K., et al.	427	91	
	5	4855252	1989-08-08	Peterman, Steven	437	189	
	6	4857481	1989-08-15	Tam, G. , et al.	437	182	
	7	4959705	1990-09-25	Lemnios,	257	522	
	8	5040049	1991-08-13	Raaijmakers, I. J.	357	71	

	9	5148260	1992-09-15	Inoue, T. , et al.	357	67
	10	5158986	1992-10-27	Cha, S. W., et al.	521	82
	11	5187560	1993-02-16	Yoshida, , et al.	257	743
	12	5241193	1993-08-31	Pfiester, J.R. , et al.	257	67
	13	5268315	1993-12-07	Prasad, J. S., et al.	437	31
	14	5308440	1994-05-03	Chino, T. , et al.	156	664
	15	5334356	1994-08-02	Baldwin, D. F., et al.	422	133
	16	5391911	1995-02-21	Beyer, K. D., et al.	257	522
	17	5454928	1995-10-03	Rogers, , et al.	205	125
	18	5458702	1995-10-17	Ono, Y. , et al.	148	432
	19	5501645	1996-03-26	Taniguchi, , et al.	477	130
	20	5516724	1996-05-14	Ast, D. E., et al.	437	160
	21	5516745	1996-05-14	Friesen, D. T., et al.	502	401
	22	5539227	1996-07-23	Nakano, H.	257	276
	23	5563448	1996-10-08	Lee, Sangin , et al.	257	742
	24	5593921	1997-01-14	Chen F. E. , et al.	437	195
	25	5705425	1998-01-06	Miura, T. , et al.	437	182
	26	5710454	1998-01-20	Wu, S. L.	257	413
	27	5753967	1998-05-19	Lin, Ming-Ren	257	635
	28	5757072	1998-05-26	Gorowitz, Bernard , et al.	257	700
	29	5796151	1998-08-18	Hsu, W. , et al.	257	410
	30	5796166	1998-08-18	Agnello, P. D., et al.	257	751
	31	5798544	1998-08-25	Ohya, S. , et al.	257	296
	32	5798559	1998-08-25	Bothra, Subhas , et al.	257	522
	33	5847439	1998-12-08	Reinberg, A. R.	257	522
	34	5861340	1999-01-19	Bai, G. , et al.	438	592
	35	5891797	1999-04-06	Farrar, P. A.	438	619
	36	5920121	1999-07-06	Forbes, , et al.	257	742
	37	5925918	1999-07-20	Wu, Zhiqiang , et al.	257	413
	38	5925933	1999-07-20	Colgan, E. G., et al.	257	762
	39	5930596	1999-07-27	Klose, H. , et al.	438	98
	40	5930668	1999-07-27	Gardner, D. S.	438	624
	41	5942799	1999-08-24	Danek, M. , et al.	257	751
	42	5960313	1999-09-28	Jun, Y. K.	438	624
	43	5989718	1999-11-23	Smith, K.W. , et al.	428	446
	44	6025261	2000-02-15	Farrar, C. , et al.	438	619

45	6080646	2000-06-27	Wang, K.	438	585
46	6150252	2000-11-21	Hsu, Wei-Yung , et al.	438	597
47	6157082	2000-12-05	Merchant, S. M., et al.	257	758
48	6180509	2001-01-30	Huang, Kuei-Wu , et al.	438	624
49	6211562	2001-04-03	Forbes, L. , et al.	257	581
50	6245663	2001-06-12	Zhao, B. , et al.	558	459
51	6265602	2001-07-24	Voit, G. , et al.	257	288
52	6271551	2001-08-07	Schmitz, Jurriann , et al.		

Signature

Examiner Name	Date